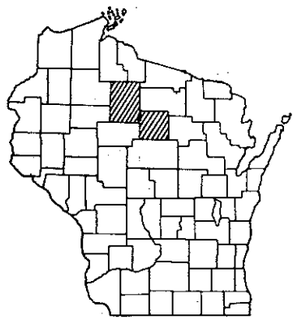
COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B.P.R. REGION DIVISION
		STATE	FEDERAL	
72.6	1129.0	11.2		4 WIS.

INDEX OF SHEETS

SHEET NO. 1 TITLE
SHEET NO. 2-2A TYPICAL CROSS SECTIONS
SHEET NO. 2 ESTIMATE OF QUANTITIES
SHEET NO. 2A MISCELLANEOUS QUANTITIES
SHEET NO. - RIGHT OF WAY PLAT
SHEET NO. 3-9 PLAN AND PROFILE STA. 187+00 TO STA. 381+73
SHEET NO. 10-10.7 STANDARD DETAILS
SHEET NO. DRAINAGE STRUCTURES
SHEET NO. 11-22 MACHINE COMPUTATIONS



STATE OF WISCONSIN

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED

S.T.H. 86 – CLIFFORD

C.T.H. "YY"

LINCOLN COUNTY – PRICE COUNTY

PROJECT S 1129(2)

SCALES { PLAN 1 IN. 100 FT.
PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.

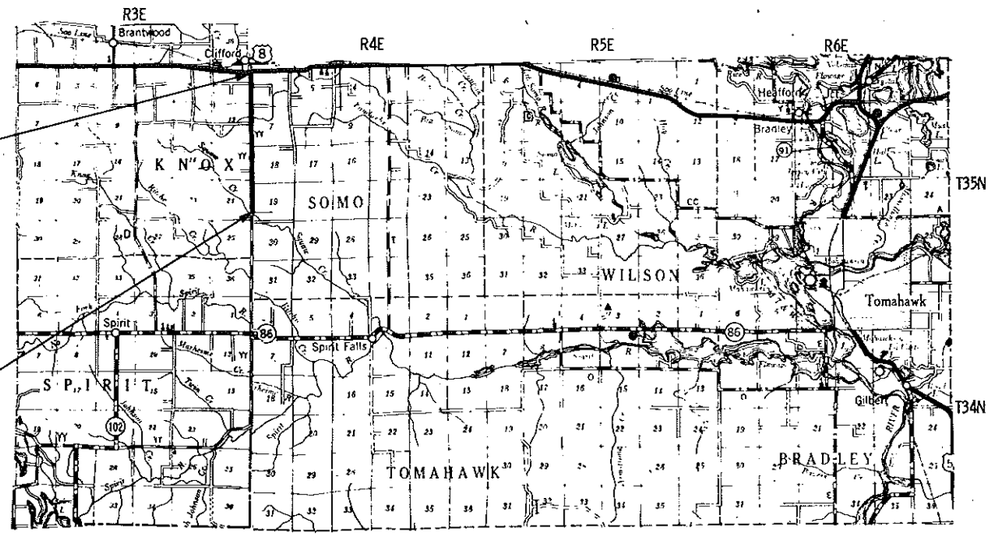
N

DESIGN DESIGNATION

ADT 1968 = 100
ADT 1988 = 200
DHV = 30
D = 65%
T = 20%
V = 50 MPH

END OF PROJECT S 1129(2)
STA. 381+73
2'E. & 563.8' S. of the N.W. Cor. of Sec. 6, T35N, R4E

BEGIN PROJECT S 1129(2)
STA. 187+00
1334' N. & 14' W. of the S.W. Cor. of Sec. 19, T35N, R4E



CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
NEW RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
WIRE FENCE { WOVEN / BARBED
LOT LINE
CORPORATE OR CITY LIMITS
PROPERTY LINE — P.L. + 32.6
TRAVELED WAY OR P.E.
RAILROADS
BASE OR SURVEY LINE — 30

CULVERTS IN PLACE
CULVERTS REQUIRED
DROP INLET
POWER POLE
TELEPHONE OR TELEGRAPH POLE
RIGHT OF WAY MARKERS
REFERENCE STAKE FOR HUBS ONLY — +381.7 26.9
MARSH
HEDGE
TREES
GROUND ELEVATION — DATUM LINE — 73.9
GRADE ELEVATION — DATUM LINE — 75.16
E.B.S. — EXCAVATION BELOW SUBGRADE

LAYOUT

SCALE 2 MI.

TOTAL NET LENGTH OF CENTERLINE = 3.688 MI.

APPROVED FOR LINCOLN COUNTY
Francis X Fox
JUN 26 1967 COUNTY HIGHWAY COMMISSIONER
Date Title

STA
COMMISS
MA

SURVEYOR J.W.
DIVISION COMPUTER E.M.
DISTRICT CHECKER O.W.
CORRECT:
DATE 5/19/67
RECOMMENDED FOR APP
DATE 5/26/67
APPROVED
DATE 5/26/67
DEPARTM
BUREAU
APPROVED

B.P.R. REGION	PROJECT	SHEET NO.
	S 1129(2)	2

ESTIMATE OF QUANTITIES

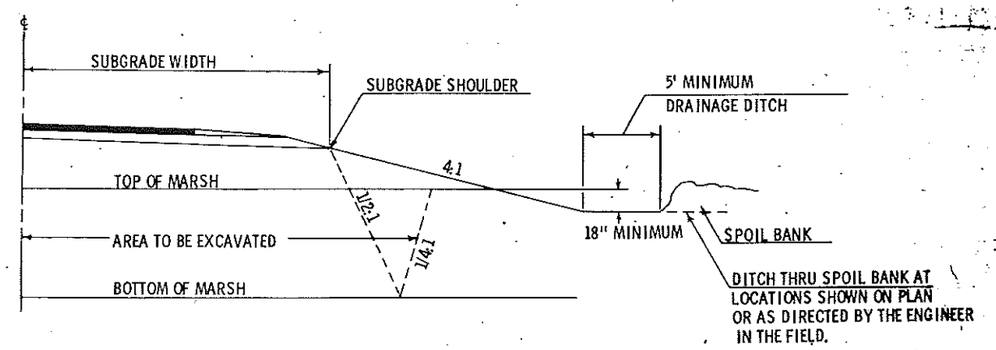
THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN EDITION OF 1963, APPROVED OCTOBER 16, 1963, FEDERAL AID REQUIRED CONTRACT PROVISIONS APPROVED OCTOBER 29, 1963, AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

CONTRACT 1

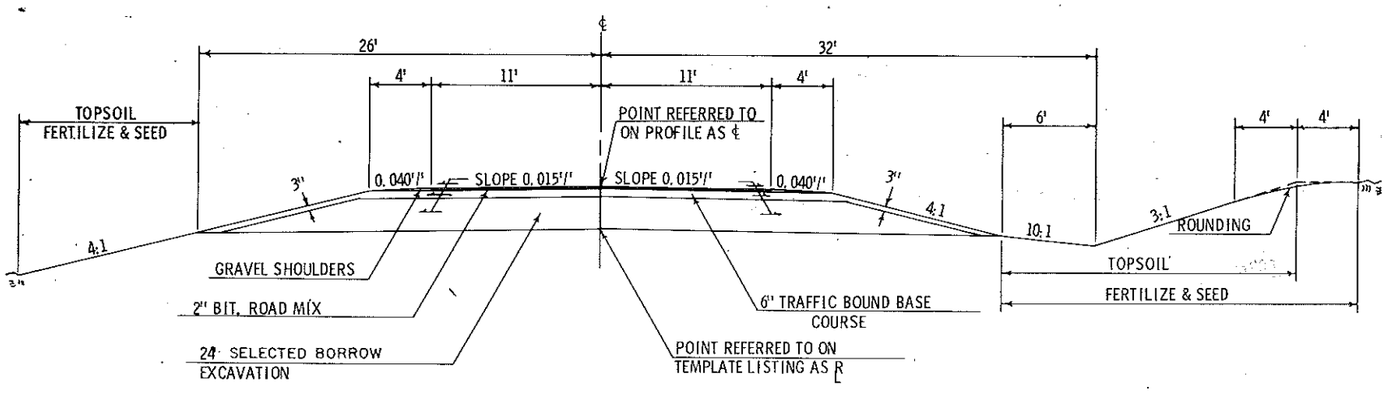
SEC. NO.	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	CLEARING	GRUBBING	GRUBBING	REMOVING OLD CULVERT, STATION 316+30	UNCLASSIFIED EXCAVATION	MARSH EXCAVATION	BORROW EXCAVATION	SELECTED BORROW EXCAVATION	FINISHING ROADWAY	TRAFFIC BOUND BASE COURSE	PRODUCING AND STOCKPILING AGGREGATE FOR BITUMINOUS ROAD MIX SURFACE	CULVERT PIPE, CLASS III, 18-INCH	CULVERT PIPE, CLASS III, 24-INCH	CULVERT PIPE, CLASS III, 30-INCH	APRON ENDWALLS FOR CULVERT PIPE, 18-INCH	APRON ENDWALLS FOR CULVERT PIPE, 24-INCH	APRON ENDWALLS FOR CULVERT PIPE, 30-INCH	STRUCTURAL PLATE PIPE ARCH, 10-FT SPAN	RIPRAP	MARKER POSTS	MARKER POSTS FOR RIGHT-OF-WAY	MAINTENANCE AND REPAIR OF HAUL ROADS	LANDMARK REFERENCE MONUMENTS	TOPSOIL	FERTILIZER	SEEDING	SODDING
	ITEM NO.		20101	20103	20104	20106	20301	20503	20505	20801	20811	21301	30502	40411	52003	52005	52007	52061	52063	52065	52725	60601	61421	61422	61801	62101	62501	62901	63001	63010
	UNIT	LIN. FT.	STATION	ACRE	STATION	ACRE	LUMP SUM	CU. YD.	CU. YD.	CU. YD.	CU. YD.	LUMP SUM	TON	TON	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	EACH	LIN. FT.	CU. YD.	EACH	EACH	LUMP SUM	EACH	SQ. YD.	CWT.	SQ. YD.	SQ. YD.
	187+00 - 381+73	19,473.0	3	5.4	3	5.6	1	52,356	491	961	56,565	1	24,460	6,740	626	558	176	42	18	4	70	26	8	54	1	2	63,100	69	76,500	84
	TOTAL	19,473.0	3	5.4	3	5.6	1	52,356	491	961	56,565	1	24,460	6,740	626	558	176	42	18	4	70	26	8	54	1	2	63,100	69	76,500	84

CONTRACT 1

SEC. NO.	STATION TO STATION	NET LENGTH OF CENTER LINE	MEDIUM RANDOM RIPRAP	FIELD OFFICE
	ITEM NO.		90001	90002
	UNIT	LIN. FT.	CU. YD.	LUMP SUM
	187+00 - 381+73	19,473.0	104	1
	TOTAL	19,473.0	104	1



1/2 MARSH SECTION



FINISHED SECTION

STA. 187+00 - 205+00
STA. 214+00 - 238+00
STA. 265+00 - 305+00
STA. 318+00 - 355+00

APPLICABLE STANDARD DETAIL DRAWINGS

6-2.4.3	Mortar Rubble Masonry or Riprap for Culvert & Cattle Pass Endwalls
6-2.6.5	Apron Endwalls for Culvert Pipe and Pipe Arch
6-5.3.2	Structural Plate Pipe Arch & Corrugated Metal Pipe Arch
7-1.3.5	Marker Post & Marker Posts for Right of Way
7-4.1.5	Construction Barricade
8-1.3.1	Ditch Checks, Mortar Rubble Masonry & Sod
9-1.1.4	Design and Layout Details for Side Road at Grade Intersections
12-1.1.2	Landmark Reference Monuments

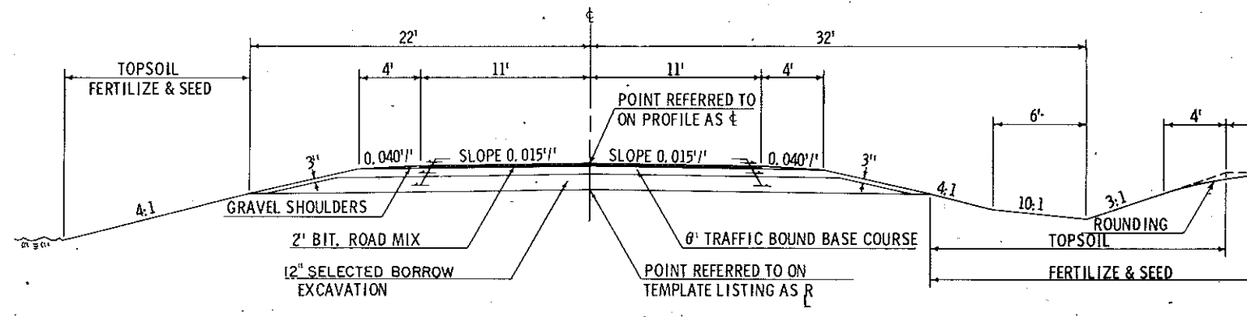
GENERAL NOTES

1. When the quantity of the items of subbase, base or surface course is measured for payment by the ton or cubic yard, the depth or thickness of the course shown on the plans is approximate and the actual thickness will depend on the distribution of the material directed by the engineer.
2. Topsoil shall be placed to an approximate depth of 3" at the time of placing.
3. In balances containing marsh excavation, the fill quantity shown in the balance total on the plan sheets includes 10% of the marsh excavation as estimated subsidence.
4. E. B. S. all mouths of cuts as directed by the engineer in the field.
5. Bituminous Road Mix Surface not part of this contract.

B. P. R. DIVISION	PRO
	S I

CULVERT PIPE SCHEDULE

STATION	APP.	LOCATION ℄	LOCATION LT.	LOCATION RT.	CULVERT PIPE CLASS III 18'	CULVERT PIPE CLASS III 24'	CULVERT PIPE CLASS III 30'	10' SPAN STRUCTURAL PLATE PIPE ARCH	APRON ENDWALLS 18'	APRON ENDWALLS 24'	APRON ENDWALLS 30'	RIPRAP CU. YD.	MARKER POSTS
189+50	P.E.			X	26				2				
196+30		X				60				2			
198+85	P.E.			X	26				2				
208+25	P.E.		X		26				2				
219+03		X				54				2			
233+90	T.R.		X		46				2				
235+80		X				50				2			
238+85	P.E.		X		26				2				
238+85	P.E.			X	26				2				
240+45	P.E.			X	26				2				
242+85		X					84				2		
247+60		X					92				2		
251+00	P.E.			X	26				2				
256+70	P.E.		X		26				2				
258+25	P.E.			X	26				2				
268+09		X				58				2			
274+07	P.E.		X		26				2				
281+04		X				58				2			
284+00	P.E.			X	26				2				
294+78		X				54				2			
312+75	P.E.			X	26				2				
312+78	P.E.		X		26				2				
315+50		X						70				26.0	8
317+67	P.E.			X	26				2				
331+90	T.R.			X	46				2				
344+00	P.E.			X	26				2				
345+16		X				54				2			
358+34	T.R.		X		46				2				
358+34	T.R.			X	46				2				
363+97		X				100				2			
376+00	P.E.			X	26				2				
378+22	P.E.		X		26				2				
381+47		X				70				2			
TOTALS					626	558	176	70	42	18	4	26.0	8



FINISHED SECTION
STA. 205+00 - 214+00
STA. 238+00 - 265+00
STA. 305+00 - 318+00
STA. 355+00 - 381+73

CLEARING & GRUBBING

LOCATION STATION - STATION	CLEARING ACRE	CLEARING STATION	GRUBBING ACRE	GRUBBING STATION
187+00 - 203+00	0.2		0.2	
203+00 - 209+00	0.2		0.4	
209+00 - 227+00	0.6		0.6	
227+00 - 234+00		0		0
234+00 - 235+00		1		1
235+00 - 239+00		0		0
239+00 - 280+00	1.4		1.4	
280+00 - 282+00		0		0
282+00 - 307+00	0.6		0.6	
307+00 - 313+00		0		0
313+00 - 314+00		1		1
314+00 - 315+00		0		0
315+00 - 316+00		1		1
316+00 - 318+00		0		0
318+00 - 381+73	2.4	—	2.4	—
TOTALS	5.4	3	5.6	3

SODDING

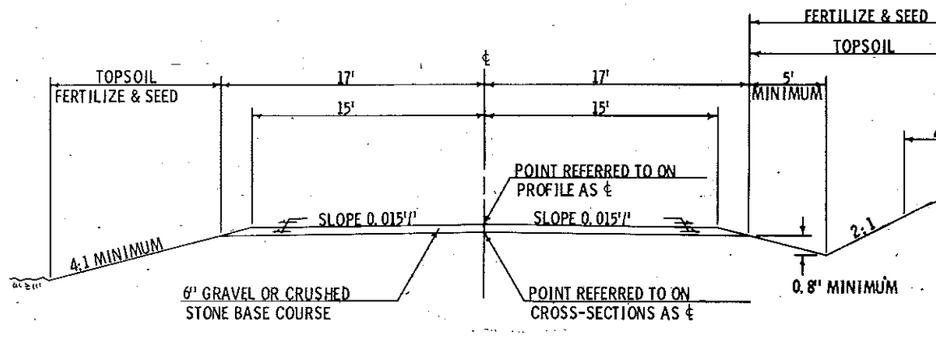
LOCATION		TYPE	SIZE	NO.	SQ. YDS.
202+00 - 212+00	LT. & RT.	CHECKS	6' X 15'	34	340
369+00 - 381+00	LT. & RT.	CHECKS	6' X 15'	50	500
TOTAL					840

EXCAVATION

STATION - STATION	CU. YD. UNCLASSIFIED	CU. YD. MARSH	CU. YD. BORROW
187+00 - 200+20	2589		
200+20 - 206+33	811		
206+33 - 244+50	9596		
244+50 - 254+62	7661		
254+62 - 268+44	4155		
268+44 - 277+19	2047		
277+19 - 286+00	1340		858
286+00 - 314+00	3466 (Haul in 1000 Cu. Yds.)		
314+00 - 341+00	7668	491	
341+00 - 358+00	2490 (Haul out 1000 Cu. Yds.)		
358+00 - 363+37	3834		
363+37 - 381+73	6699		103
TOTALS	52356	491	961

MARKER POST FOR RIGHT OF WAY

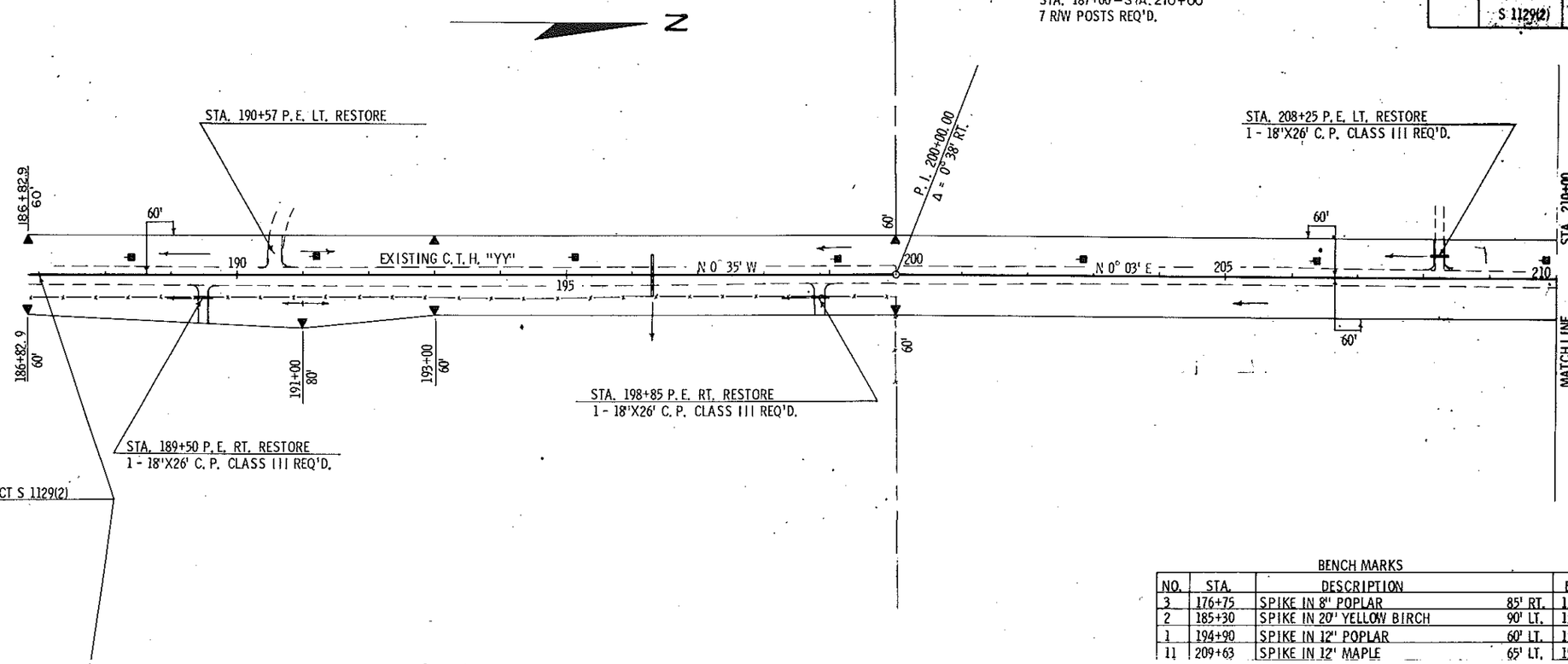
STATION - STATION	NO.
187+00 - 210+00	7
210+00 - 240+00	8
240+00 - 270+00	8
270+00 - 300+00	6
300+00 - 330+00	8
330+00 - 360+00	13
360+00 - 381+73	4
TOTAL	54



FINISHED SECTION SHOWING SIDE ROAD GRAVEL SURFACE
STA. 233+90 LT.
STA. 305+50 LT.
STA. 331+90 LT.
STA. 358+34 LT. & RT.

B. P. R. DIVISION	PROJECT	SHEET NUMBER
	S 1129(2)	3

STA. 187+00 – STA. 210+00
7 R/W POSTS REQ'D.



BENCH MARKS

NO.	STA.	DESCRIPTION		ELEV.
3	176+75	SPIKE IN 8" POPLAR	85' RT.	1560.7
2	185+30	SPIKE IN 20" YELLOW BIRCH	90' LT.	1564.7
1	194+90	SPIKE IN 12" POPLAR	60' LT.	1571.3
11	209+63	SPIKE IN 12" MAPLE	65' LT.	1592.2

NET CENTERLINE LENGTH STA. 187+00 - STA. 210+00 = 2,300.00 LIN. FT.

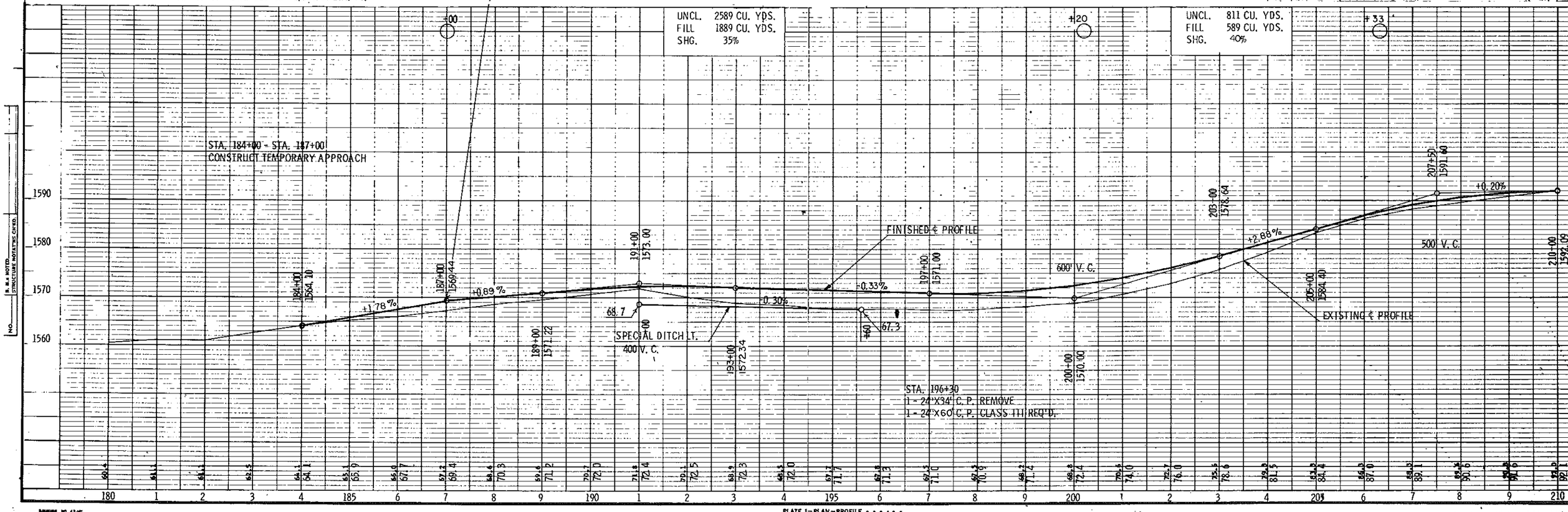


PLATE 1—PLAN—PROFILE

PLAN & PROFILE STA. 187+00 -

STA. 210+00 - 240+00
8 R/W POSTS REQ'D.

STA. 214+76 P.E. LT. RESTORE

STA. 233+90 TOWN ROAD LT. RESTORE
1 - 15'X16' C. P. REMOVE
1 - 18'X46' C. P. CLASS III REQ'D.
TYPE "E" INTERSECTION REQ'D.

STA. 238+85 P.E. LT. RESTORE
1 - 18'X26' C. P. CLASS III REQ'D.

STA. 210+00

MATCH LINE

60'

210 N 0° 03' E 215 EXISTING C.T.H. "YY" 220 225 230 235 N 01° 11' W

49.5 8 9 92°07'

P.I. 226+33.52
Δ = 1° 14' LT.

STA. 229+00 - 231+70 RT.
STONE PILE - REMOVE

STA. 238+85 P.E. LT. RESTORE
1 - 18'X26' C. P. CLASS III REQ'D.

WELL DO NOT DISTURB

BENCH MARKS

NO.	STA.	DESCRIPTION
11	209+63	SPIKE IN 12" MAPLE
12	220+50	SPIKE IN 12" YELLOW BIRCH
13	232+02	SPIKE IN 12" TRIPLE ELM
14	241+50	SPIKE IN 16" ELM

NET CENTERLINE LENGTH STA. 210+00 - STA. 240+00 = 3,000.00 LIN. FT.

UNCL. 9596 CU. YDS.
FILL 6958 CU. YDS.
SHG. 40%

FINISHED ℄ PROFILE
+0.20%
EXISTING ℄ PROFILE

STA. 219+03
1 - 15'X21'X30' C.M.P.A. REMOVE
1 - 24'X54' C.P. CLASS III REQ'D.

STA. 224+00
1 - 15'X21' C.M.P.A. REMOVE

92.2 +50 +0.15% +00 92.0
1590 1590
SPECIAL DITCH LT.

224+00 1595.81
230+00 1596.00
231+00 1595.70
200 V.C.
+0.20% +0.30%
92.2 +50 +00 91.9
SPECIAL DITCH RT.

STA. 235+80
1 - 15'X32' C.P. REMOVE
1 - 24'X50' C.P. CLASS III REQ'D.

FINISHED ℄ PROFILE
50 V.C.
+75 8+00 1591.80 +25 +1.50% 10+00 1594.50
PROFILE TOWN ROAD LT. ℄ STA. 23

1600
1590

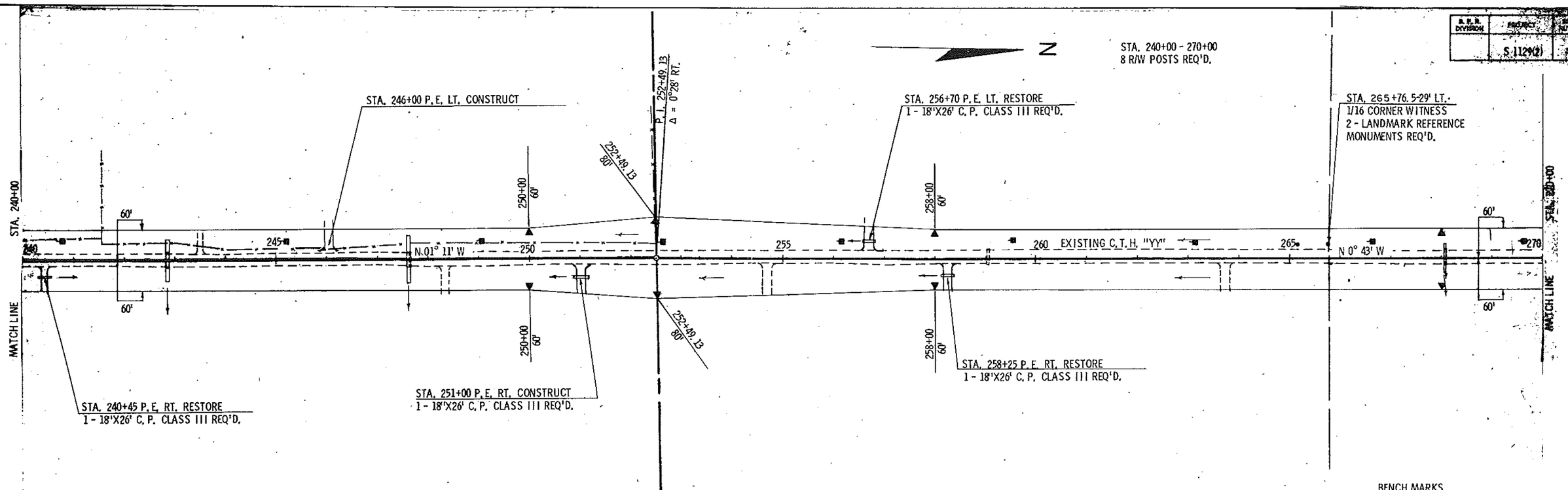
92.0 92.1 92.3 92.5 92.7 92.9 93.1 93.3 93.5 93.7 93.9 94.1 94.2 94.4 94.6 94.8 95.0 95.2 95.4 95.6 95.8 95.9 95.7 95.5 95.3 95.1 94.8 94.5 94.2 93.9 93.6 93.3

210 1 2 3 4 215 6 7 8 9 220 1 2 3 4 225 6 7 8 9 230 1 2 3 4 235 6 7 8 9

STRUCTURE NOTATIONS CHKD.

PLATE 1 — PLAN — PROFILE

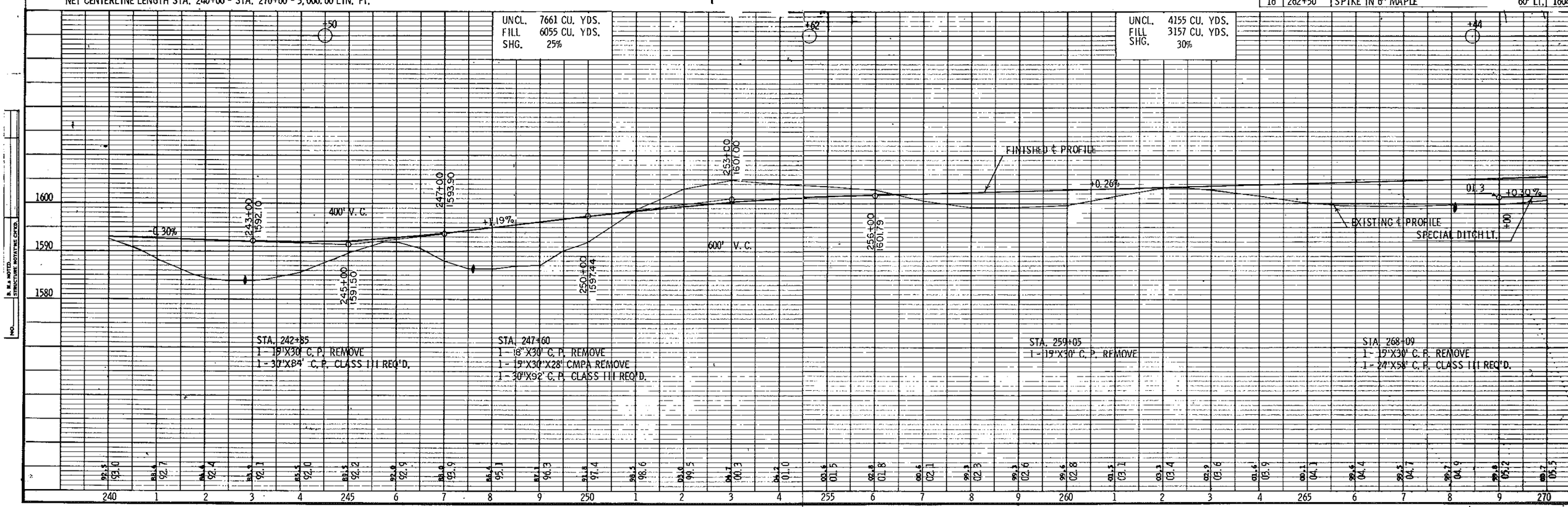
B.P.R. DIVISION	PROJECT	SHEET NO.
	S-1129(2)	



BENCH MARKS

NO.	STA.	DESCRIPTION		ELEV.
14	241+50	SPIKE IN 16" ELM	100' LT.	1586.4
15	252+82	SPIKE IN 12" BASSWOOD	65' RT.	1602.8
16	262+50	SPIKE IN 6" MAPLE	60' LT.	1604.2

NET CENTERLINE LENGTH STA. 240+00 - STA. 270+00 = 3,000.00 LIN. FT.



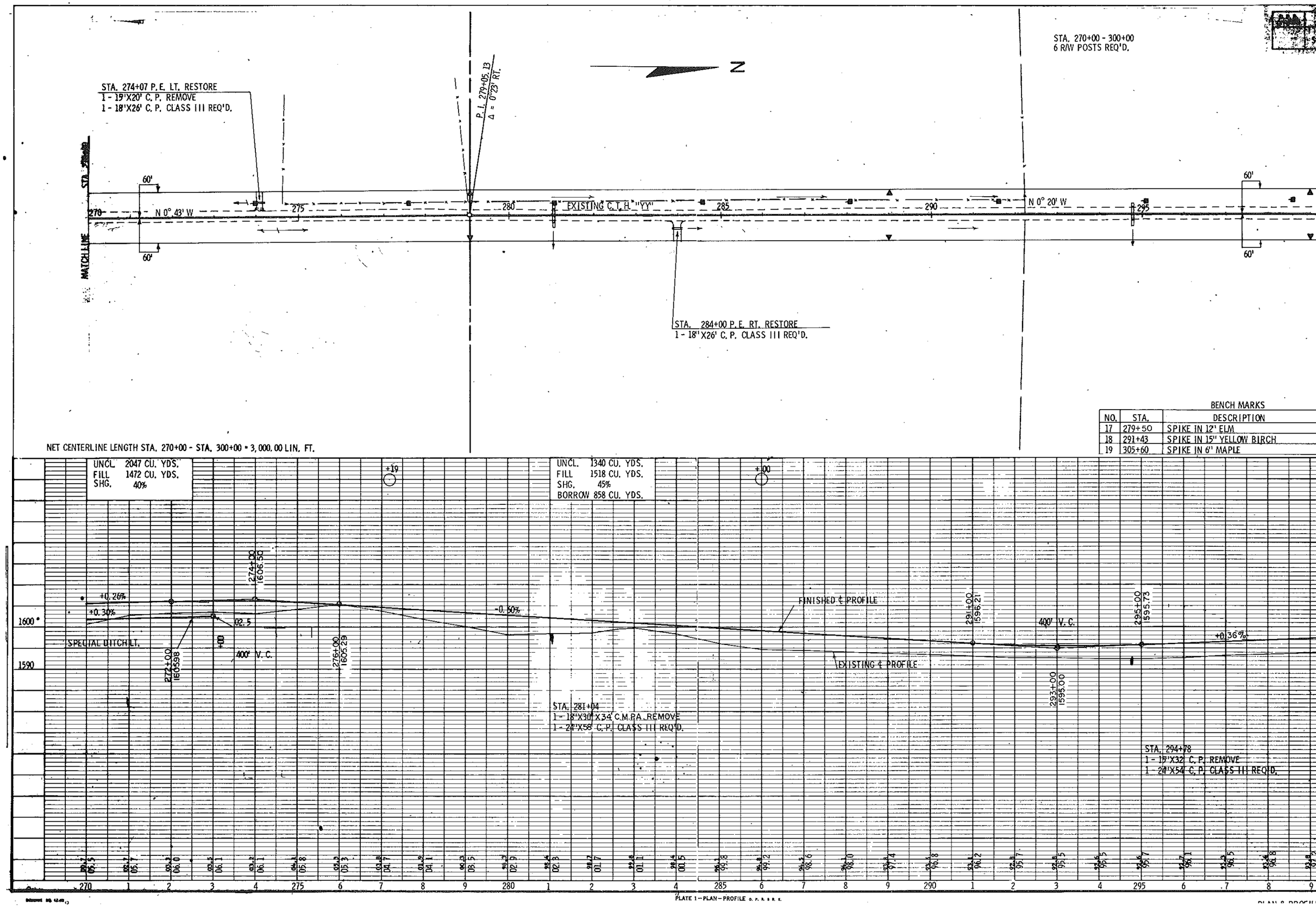
B. M. & NOTED. STRUCTURE NOTATIONS CHKD.

NO.

BRUNING NO. 42-161

PLATE 1—PLAN—PROFILE C. P. R. & R. E.
MADE AND PRINTED IN U.S.A.
CHARLES BRUNING COMPANY, INC.

PLAN & PROFILE STA. 240+00 - ST



BENCH MARKS

NO.	STA.	DESCRIPTION
17	279+50	SPIKE IN 12" ELM
18	291+43	SPIKE IN 15" YELLOW BIRCH
19	305+60	SPIKE IN 6" MAPLE

PLATE 1 — PLAN — PROFILE

B. P. R. DIVISION	PROJECT	SHEET NUMBER
	S 1129(2)	7

STA. 300+00 - 330+00
8 R/W POSTS REQ'D.

STA. 305+50 TOWN ROAD LT. RESTORE
TYPE "E" INTERSECTION REQ'D.

STA. 312+78 P.E. LT. RESTORE
1 - 15"X14' C.P. REMOVE
1 - 18"X26' C.P. CLASS III REQ'D.

STA. 308+70-312+00 LT.
STONE PILE - REMOVE

L.H.E. (DRAINAGE)

STA. 312+75 P.E. RT. RESTORE
1 - 15"X20' C.P. REMOVE
1 - 18"X26' C.P. CLASS III REQ'D.

STA. 317+67 P.E. RT. RESTORE
1 - 18"X26' C.P. CLASS III REQ'D.

STA. 314+00- 315+50 RT.
104 CU. YDS. MEDIUM RANDOM RIPRAP REQ'D.

CHANNEL CHANGE TYPICAL
STA. 315+50
846 CU. YD. WASTE

NET CENTERLINE LENGTH STA. 300+00 - STA. 330+00 = 3,000.00 LIN. FT.

BENCH MARKS

NO.	STA.	DESCRIPTION		ELEV.
19	305+60	SPIKE IN 6" MAPLE	120' LT.	1598.01
20	315+50	SPIKE IN 14" ELM	70' RT.	1588.90
21	327+00	SPIKE IN 12" MAPLE	65' LT.	1596.18

UNCL. 3466 CU. YDS.
FILL 3153 CU. YDS.
SHG. 40%
UNCL HAUL IN 1000 CU. YDS. FROM STA. 341+00 - 358+00

UNCL. 7,668 CU. YDS.
FILL 5,781 CU. YDS.
SHG. 30%
MARSH 491 CU. YDS.

PROFILE TOWN ROAD LT. ℄ STA. 305+50=10+00

FINISHED ℄ PROFILE

EXISTING ℄ PROFILE

SPECIAL DITCH LT.

SPECIAL DITCH RT.

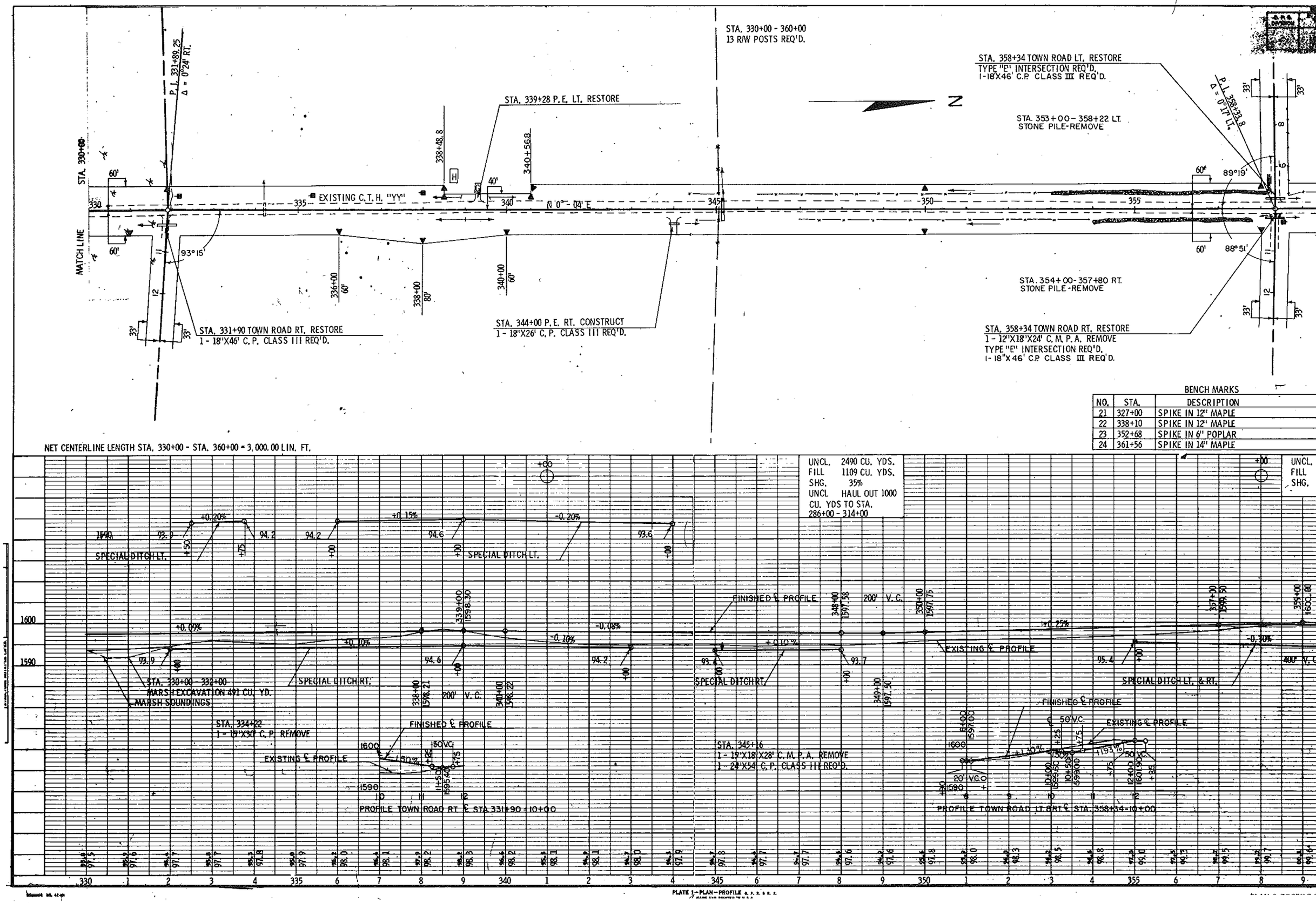
STA. 315+50
1 - 10' SPAN X 7.0' STRUCTURAL PLATE PIPE ARCH 5 GAGE REQ'D.
ENDS SQUARE

STA. 316+30
1 - 15' SPAN STONE CULVERT REMOVE

STA. 324+69
1 - 15"X30' C.P. REMOVE

PLATE 1 - PLAN - PROFILE

PLAN & PROFILE STA. 300+00 - S

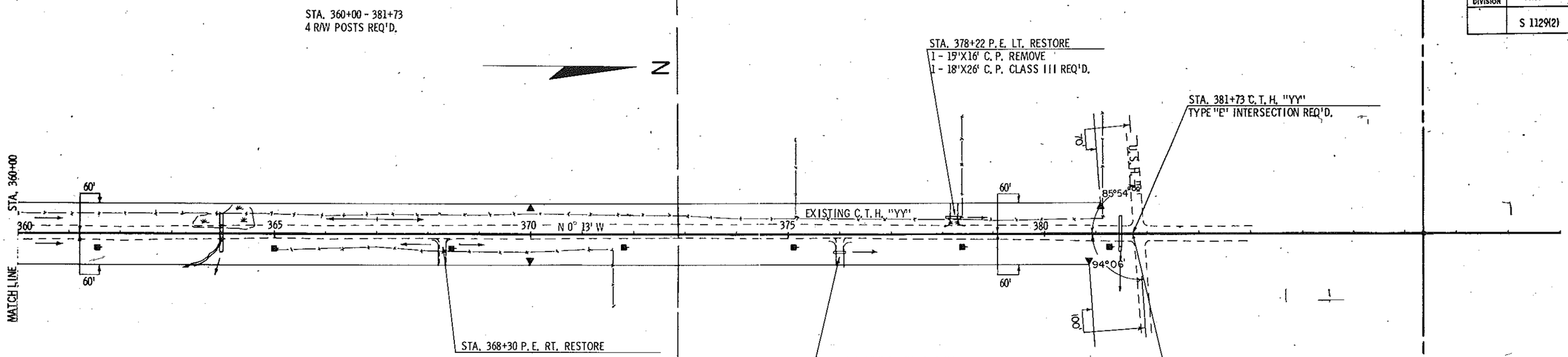


BENCH MARKS

NO.	STA.	DESCRIPTION
21	327+00	SPIKE IN 12" MAPLE
22	338+10	SPIKE IN 12" MAPLE
23	352+68	SPIKE IN 6" POPLAR
24	361+56	SPIKE IN 14" MAPLE

PLATE 1 - PLAN - PROFILE

B. P. R. DIVISION	PROJECT	SHEET NUMBER
	S 1129(2)	9

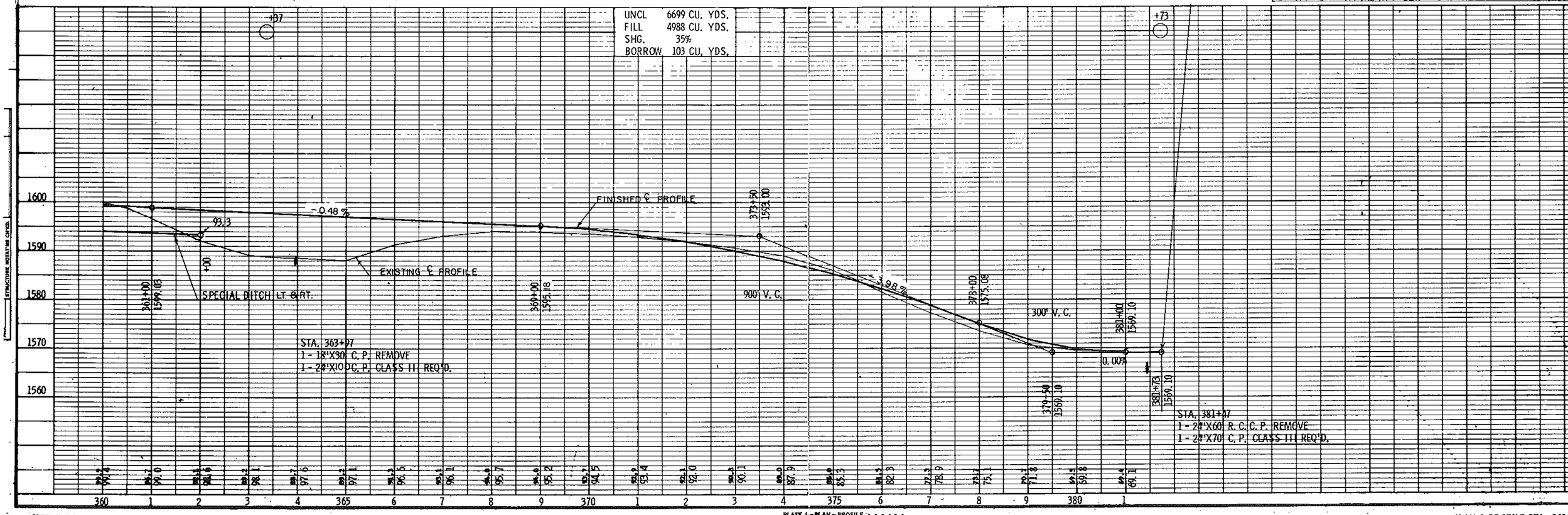


NET CENTERLINE LENGTH STA. 360+00 - STA. 381+73 = 2,173.00 LIN. FT.

BENCH MARKS

NO.	STA.	DESCRIPTION		ELEV.
24	361+56	SPIKE IN 14" MAPLE	50' RT.	1594.32
25	371+30	SPIKE IN 5" MAPLE	80' RT.	1594.01
26	381+20	SPIKE IN 7" ELM	75' RT.	1566.26

UNCL	6699 CU. YDS.
FILL	4988 CU. YDS.
SHG.	35%
BORROW	103 CU. YDS.



STRUCTURE NO. 42-186

PLATE 1 - PLAN - PROFILE O.P.R.B.R.R.
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